11/23/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

November 9, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the seventh consecutive month. The land crew total decreased by one crew, and the marine crew total increased by three for a net increase of two crews to a total of 195.

The October total (195) represents an increase of 1% from last month, a 23% increase over October, 1986, a 45% decrease from October, 1985, a 61% decrease from October, 1984, a 61% decrease from October, 1983, a 62% decrease from October, 1982, and a decrease of 74% from the same month in 1981.

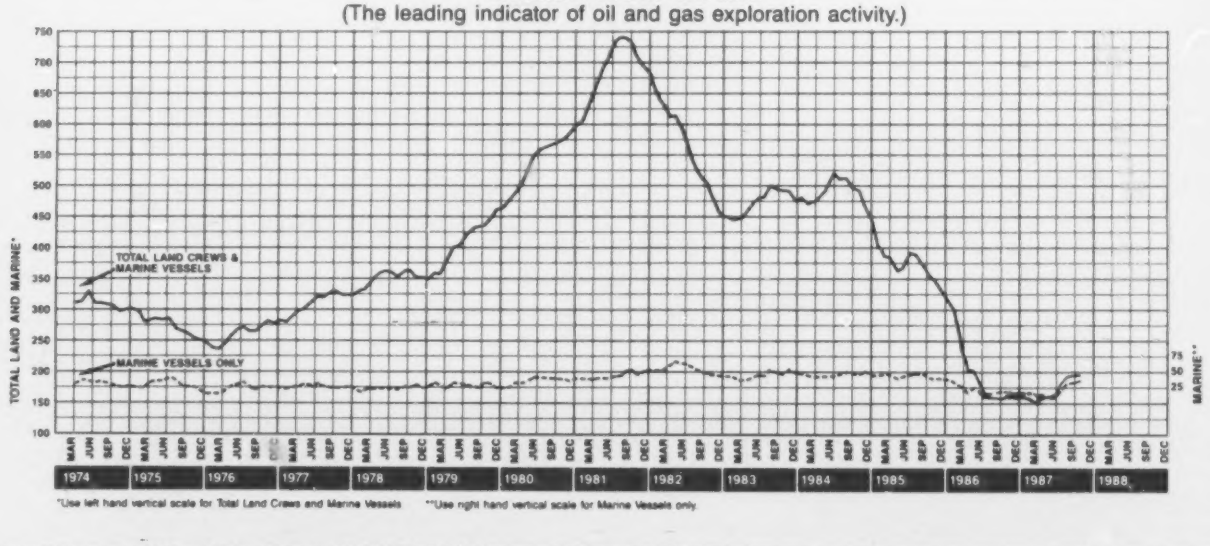
During October, no contractors were operating any land crews or marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'86	Oct.'85	Oct.'84	Oct.'83	Oct. 82	Oct.'81
	195	193	158	357	497	498	516	741

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982	Oct. 1981	This Mo.	Last Mo.	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982	Oct. 1981
42 Contr's:	148	151	119	279	412	410	423	646	29	26	18	38	42	42	42	44
8 Oil Co's:	15	13	17	33	37	38	42	43	3	3	4	7	6	7	8	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
TOTALS	163	164	136	312	449	448	465	689	32	29	22	45	48	50	51	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



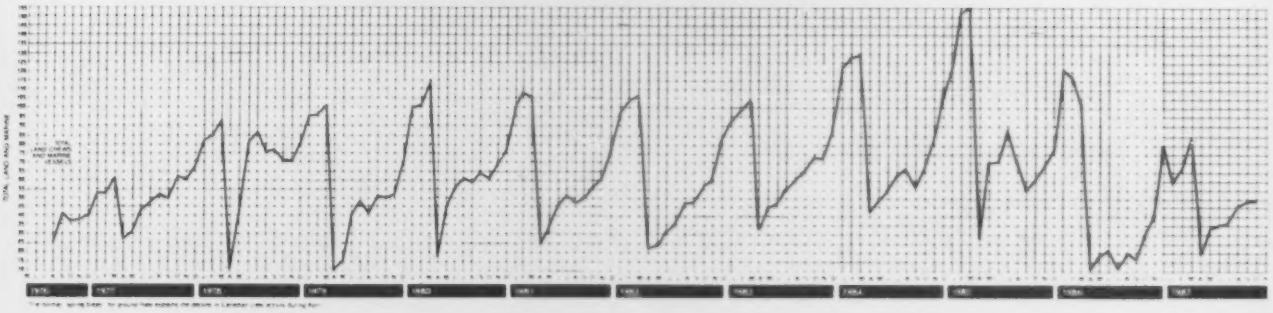
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1987 (September figures in parentheses)

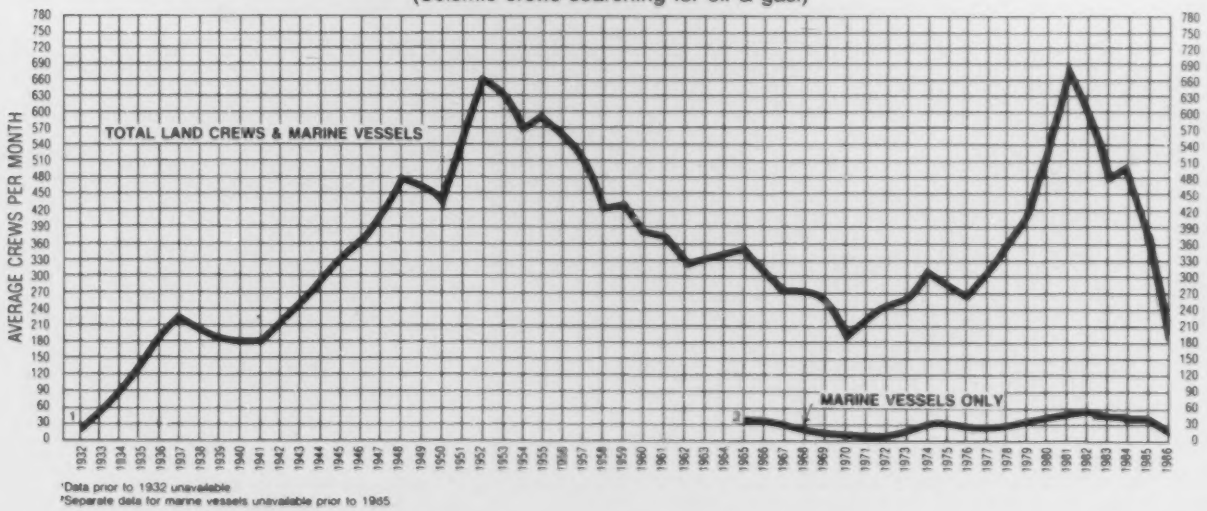
	Land Crews	Marine Crews
24 Contractors:	47 (46)	1 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	49 (48)	1 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1985

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

December 8, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the eighth consecutive month. The land crew total increased by seven crews, and the marine crew total decreased by four for a net increase of three crews to a total of 198.

The November total (198) represents an increase of 2% over last month, a 25% increase over November, 1986, a 43% decrease from November, 1985, a 60% decrease from November, 1984, a 60% decrease from November, 1983, a 61% decrease from November, 1982, and a decrease of 73% from the same month in 1981.

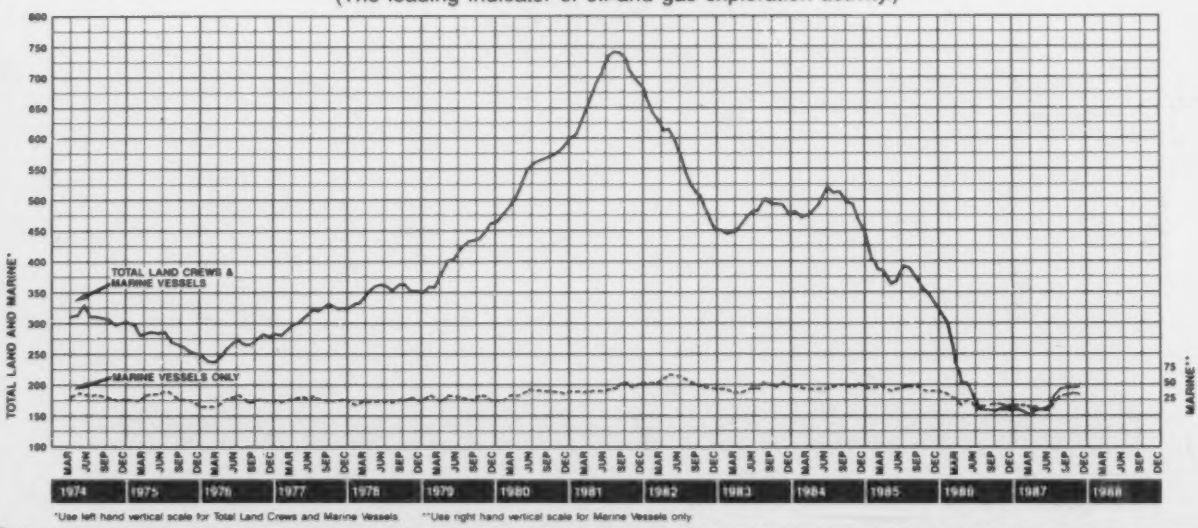
During November, one contractor was operating one of the 155 land crews and none of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'86	Nov.'85	Nov.'84	Nov.'83	Nov. 82	Nov.'81
	198	195	158	346	493	495	502	733

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982	Nov. 1981	This Mo.	Last Mo.	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982	Nov. 1981
41 Contr's:	155	148	121	273	407	408	410	638	25	29	15	35	42	42	42	45
8 Oil Co's:	15	15	18	32	37	38	42	43	3	3	4	6	7	7	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
TOTALS	170	163	139	305	444	446	452	681	28	32	19	41	49	49	50	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

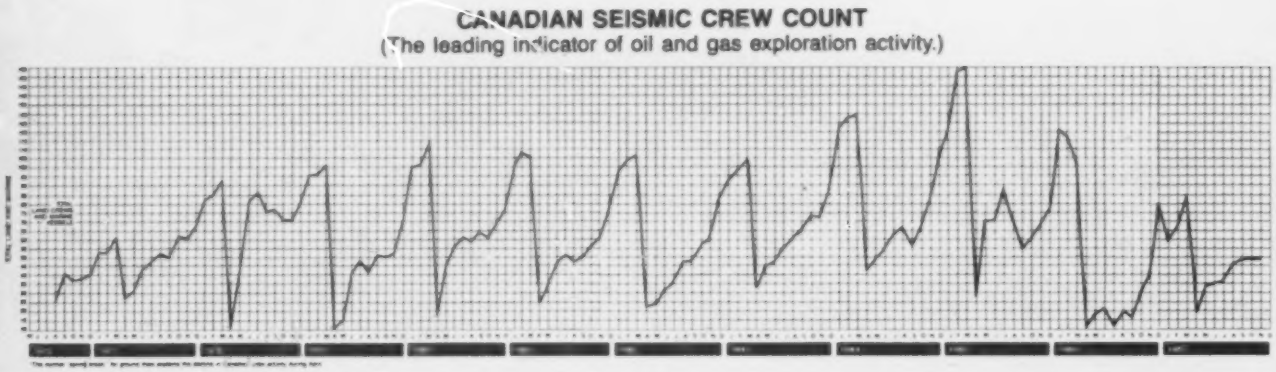
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740; Tel. (918) 493-3516

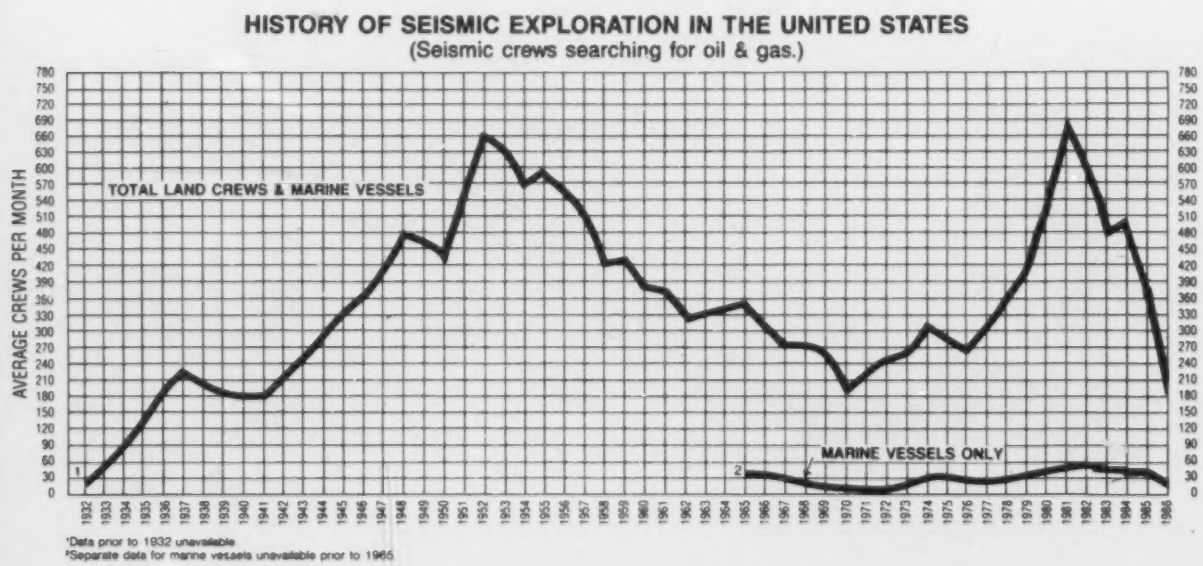
CANADIAN SEISMIC CREW COUNT

November, 1987 (October figures in parentheses)

	Land Crews	Marine Crews
23 Contractors:	47 (47)	1 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	49 (49)	1 (1)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.


HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)
AVERAGE CREWS PER MONTH
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
1
2
'Data prior to 1932 unavailable
²Separate data for marine vessels unavailable prior to 1965

2/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 11, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the ninth consecutive month. The land crew total increased by two crews, but the marine crew total decreased by one for a net increase of one crew to a total of 199.

The December total (199) represents an increase of 1% over last month, a 27% increase over December, 1986, a 39% decrease from December, 1985, a 57% decrease from December, 1984, a 60% decrease from December, 1983, a 58% decrease from December, 1982, and a decrease of 72% from the same month in 1981.

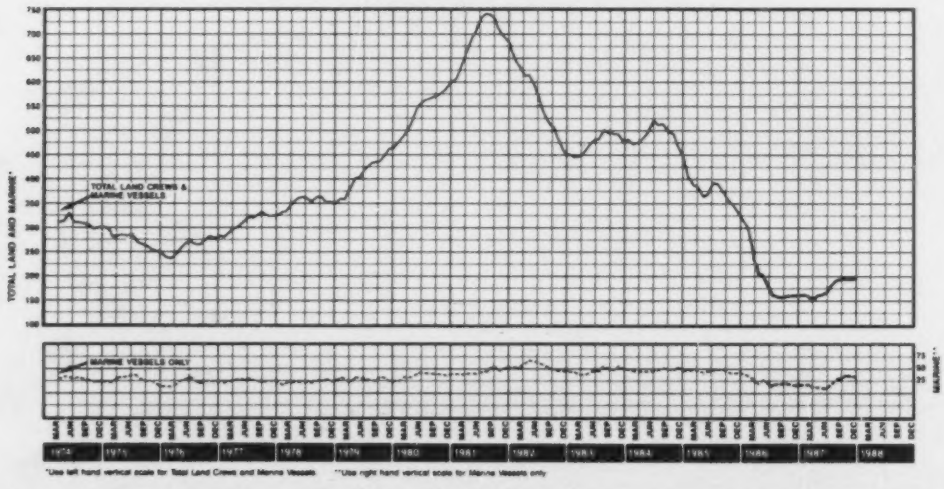
During December, one contractor was operating one of the 157 land crews and none of the twenty-four marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Dec.'86	Dec.'85	Dec.'84	Dec.'83	Dec. 82	Dec.'81
	199	198	157	326	466	493	477	703

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982	Dec. 1981	This Mo.	Last Mo.	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982	Dec. 1981
43 Contr's:	157	155	121	255	378	408	386	613	24	25	15	33	44	41	42	39
8 Oil Co's:	15	15	18	32	36	37	42	43	3	3	3	6	8	7	7	8
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	172	170	139	287	414	445	428	656	27	28	18	39	52	48	49	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



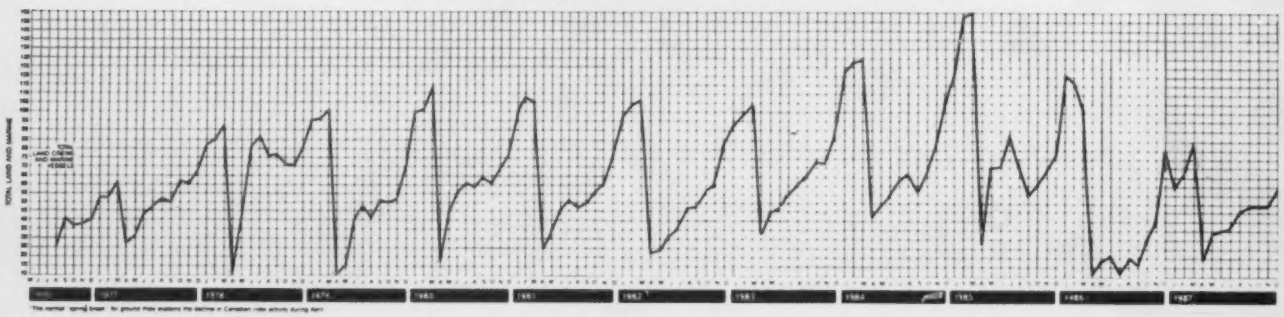
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

December, 1987 (November figures in parentheses)

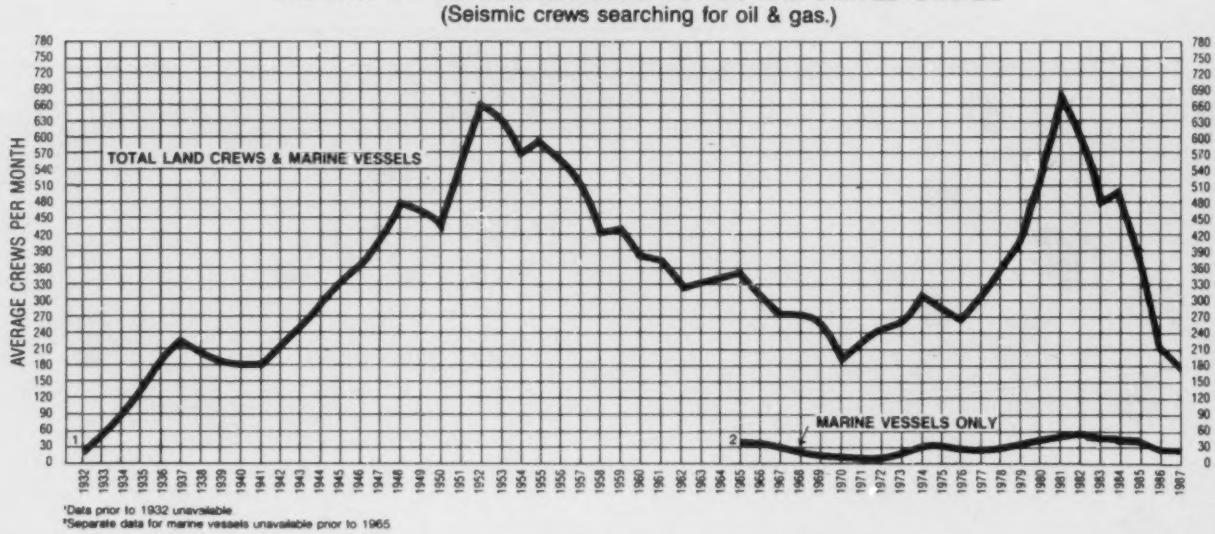
	Land Crews	Marine Crews
25 Contractors:	62 (47)	0 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	64 (49)	0 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

2/16/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

February 8, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of January, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters showed a slight decrease for the first time in ten months. The land crew total decreased by five crews, but the marine crew total increased by three for a net decrease of two crews to a total of 197. The slight decrease is attributed to unusually frigid weather in the U.S. during the month of January.

The January total (197) represents a decrease of 1% from last month, **a 23% increase over January, 1987**, a 36% decrease from January, 1986, a 55% decrease from January, 1985, a 59% decrease from January, 1984, a 57% decrease from January, 1983, and a decrease of 72% from the same month in 1982.

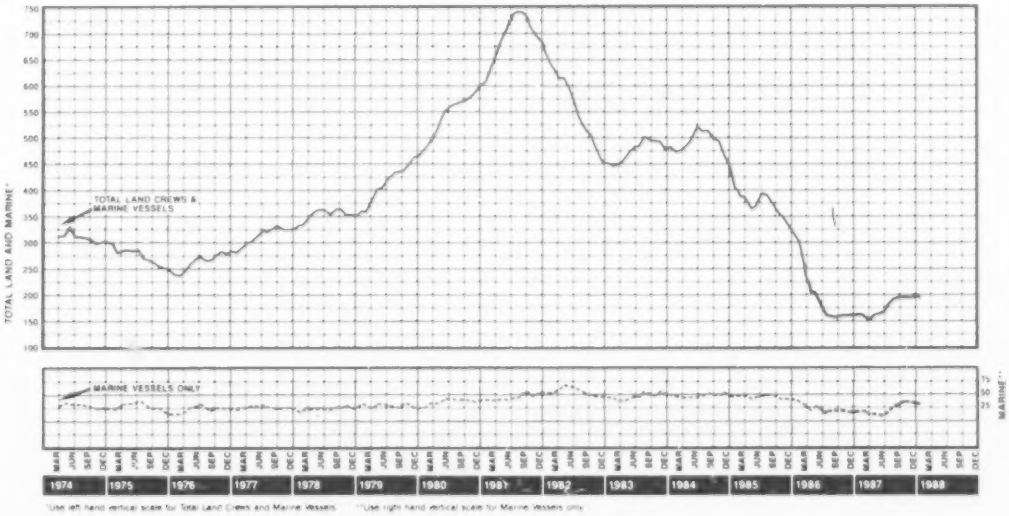
During January, one contractor was operating one of the 152 land crews and none of the twenty-six marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Jan.'87	Jan.'86	Jan.'85	Jan.'84	Jan. 83	Jan.'82
	197	199	160	310	439	477	456	695

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983	Jan. 1982	This Mo.	Last Mo.	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983	Jan. 1982
43 Contr's:	152	157	126	240	358	390	365	599	26	24	15	34	39	42	42	46
8 Oil Co's:	15	15	16	31	35	37	42	43	4	3	3	5	7	8	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	167	172	142	271	393	427	407	642	30	27	18	39	46	50	49	53

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

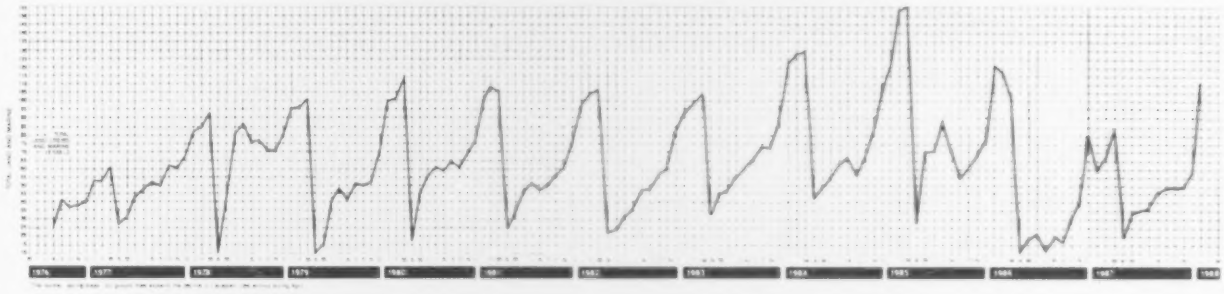
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

January, 1988 (December figures in parentheses)

	Land Crews	Marine Crews
33 Contractors:	110 (62)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	112 (64)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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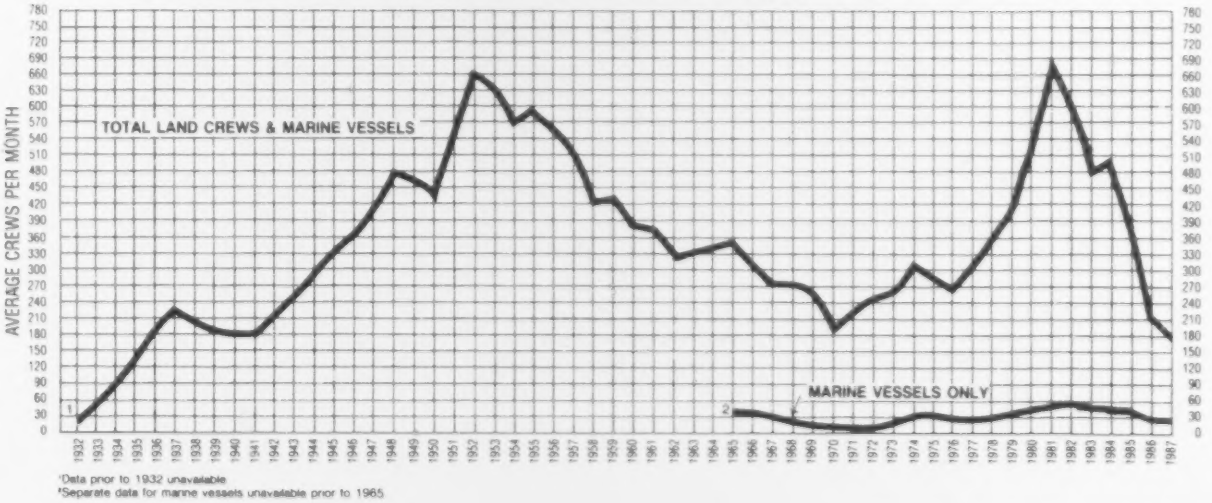
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

3/8/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE March 8, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of February, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters showed a slight increase during the month of February. The land crew total increased by one crews, and the marine crew total remained the same for a net increase of one crew to a total of 198.

The February total (198) represents an increase of 1% over last month, **a 31% increase over February, 1987**, a 33% decrease from February, 1986, a 51% decrease from February, 1985, a 59% decrease from February, 1984, a 56% decrease from February, 1983, and a decrease of 71% from the same month in 1982.

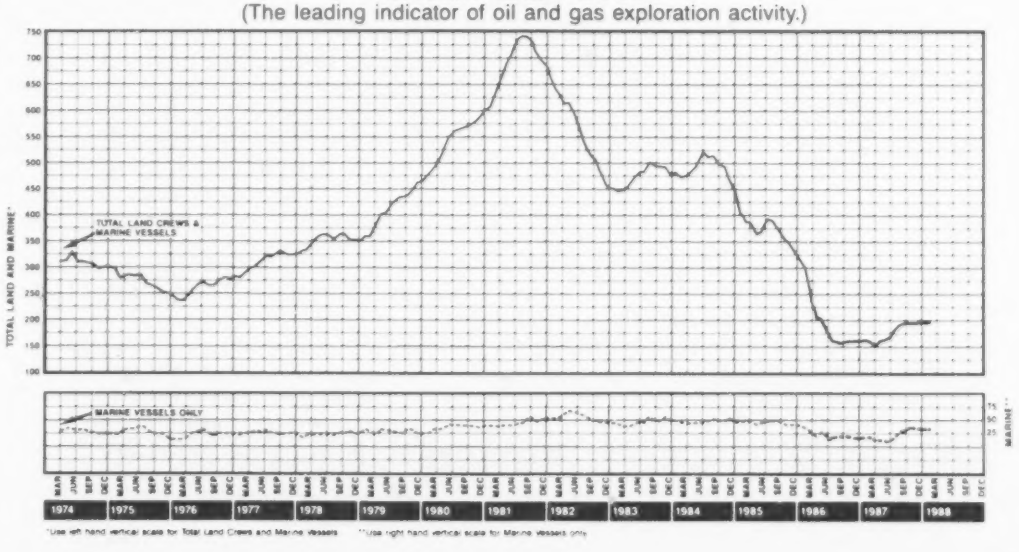
During February, one contractor was operating one of the 155 land crews and none of the twenty-six marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Feb.'87	Feb.'86	Feb.'85	Feb.'84	Feb. 83	Feb.'82
	198	197	151	295	406	486	451	678

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983	Feb. 1982	This Mo.	Last Mo.	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983	Feb. 1982
43 Contr's:	155	152	119	226	326	396	362	582	26	26	16	34	38	45	40	46
6 Oil Co's:	13	15	13	30	34	37	42	43	4	4	3	5	7	8	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	168	167	132	256	360	433	404	625	30	30	19	39	46	53	47	53

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels **Use right hand vertical scale for Marine vessels only

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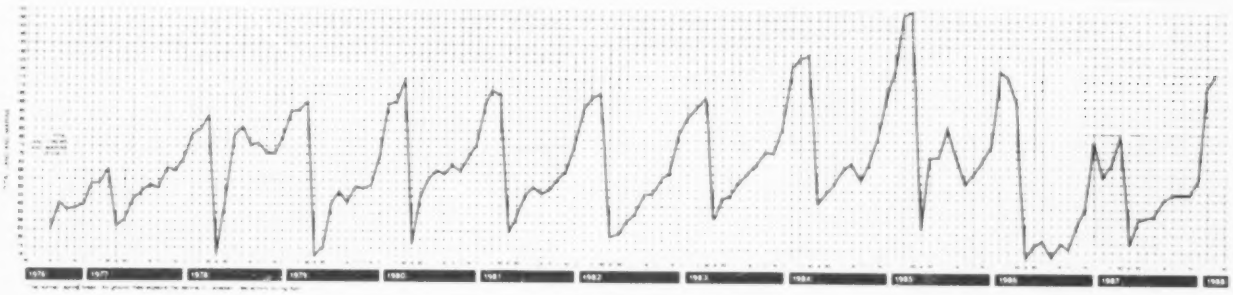
CANADIAN SEISMIC CREW COUNT

February, 1988 (January figures in parentheses)

	Land Crews	Marine Crews
33 Contractors:	117 (110)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	119 (112)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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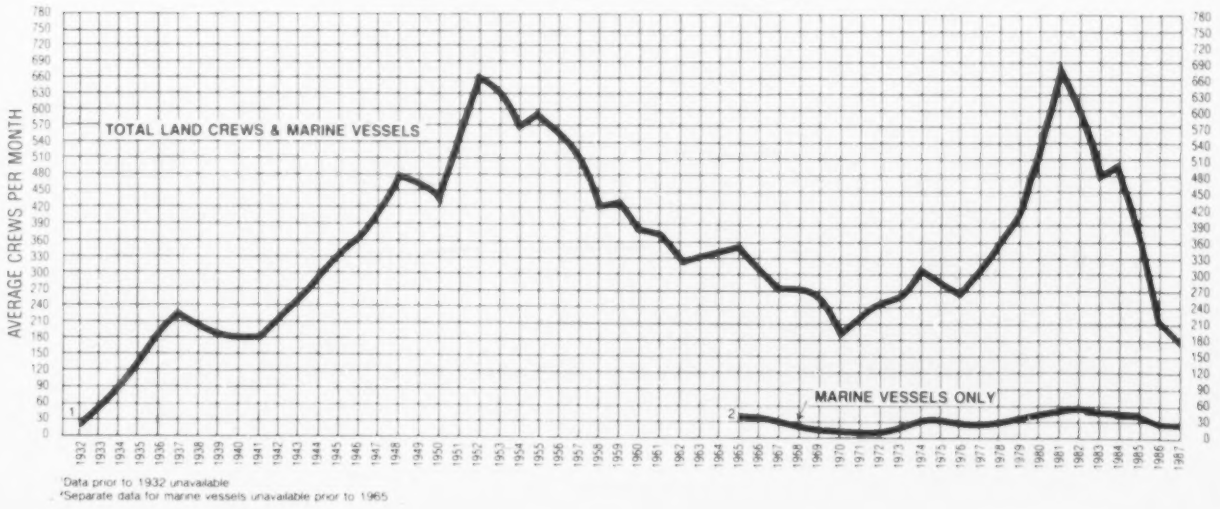
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



'Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

4/18/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

April 12, 1988

(Month of March, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of March. The land crew total decreased by three crews, and the marine crew total decreased by one for a net decrease of four crews to a total of 194.

The March total (194) represents an decrease of 2% from last month, **a 29% increase over March, 1987**, a 19% decrease from March, 1986, a 50% decrease from March, 1985, a 59% decrease from March, 1984, a 57% decrease from March, 1983, and a decrease of 70% from the same month in 1982.

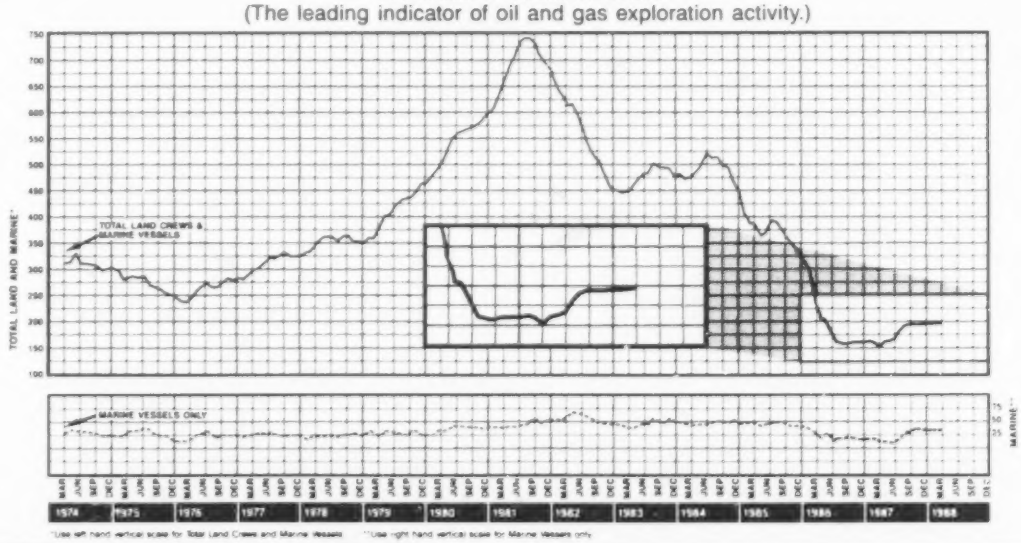
During March, two contractors were operating one of the 150 land crews and one of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Mar.'87	Mar.'86	Mar.'85	Mar.'84	Mar. 83	Mar.'82
	194	198	150	240	388	471	447	649

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984	Mar. 1983	Mar. 1982	This Mo.	Last Mo.	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984	Mar. 1983	Mar. 1982
40 Contr's:	150	155	118	185	306	386	360	554	25	26	15	23	40	39	38	45
8 Oil Co's:	15	13	14	27	34	38	42	43	4	4	3	5	7	8	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	165	168	132	212	340	424	402	597	29	30	18	28	48	47	45	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



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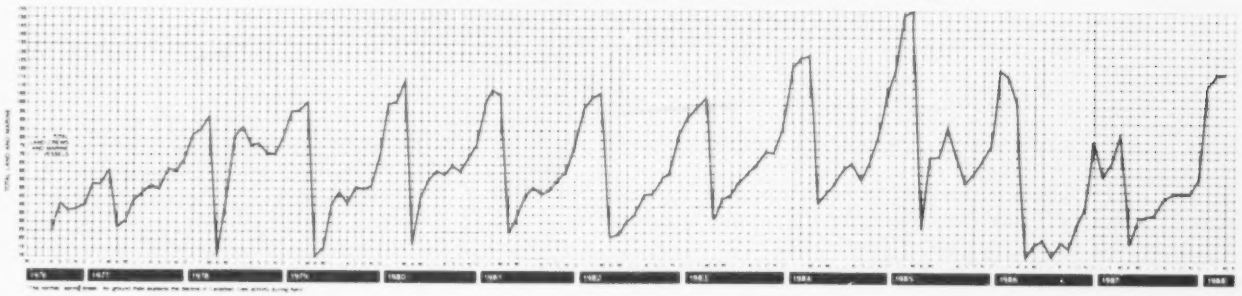
CANADIAN SEISMIC CREW COUNT

March, 1988 (February figures in parentheses)

	Land Crews	Marine Crews
33 Contractors:	118 (117)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	120 (119)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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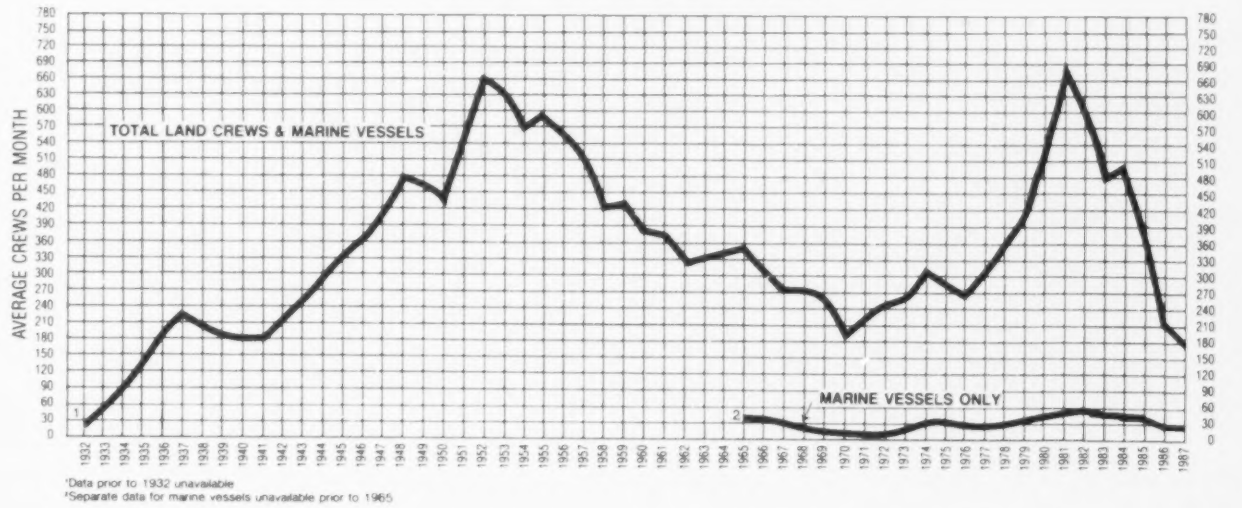
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

5/17/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

May 10, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of April, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during the month of April. The land crew total increased by two crews, and the marine crew total remained the same for a net increase of two crews to a total of 196.

The April total (196) represents an increase of 1% over last month, **a 20% increase over April, 1987**, a 4% decrease from April, 1986, a 49% decrease from April, 1985, a 59% decrease from April, 1984, a 56% decrease from April, 1983, and a decrease of 69% from the same month in 1982.

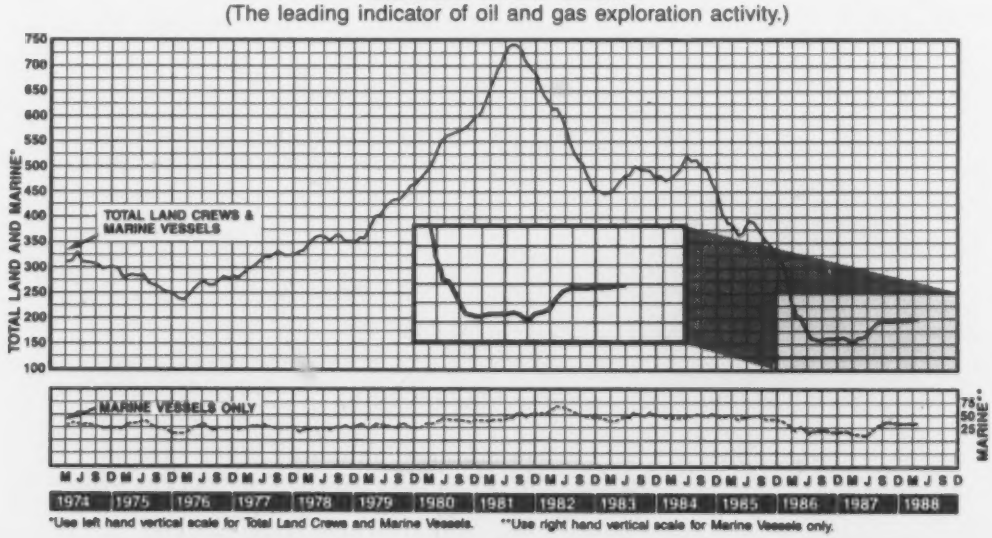
During April, four contractors were operating three of the 152 land crews and one of the twenty-four marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 196	Last Month 194	Apr.'87 164	Apr.'86 205	Apr.'85 383	Apr.'84 473	Apr. 83 449	Apr.'82 626

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984	Apr. 1983	Apr. 1982	This Mo.	Last Mo.	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984	Apr. 1983	Apr. 1982
42 Contr's:	152	150	131	159	304	385	369	528	24	25	16	15	39	42	32	48
8 Oil Co's:	15	15	14	26	32	38	41	43	4	4	3	5	7	8	7	7
1 Gov't:	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
TOTALS	167	165	145	185	336	423	410	571	29	29	19	20	47	50	39	55

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

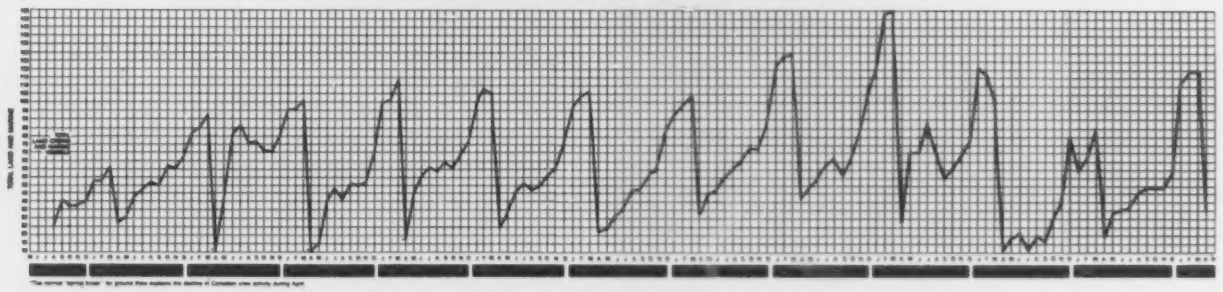
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

April, 1988 (March figures in parentheses)

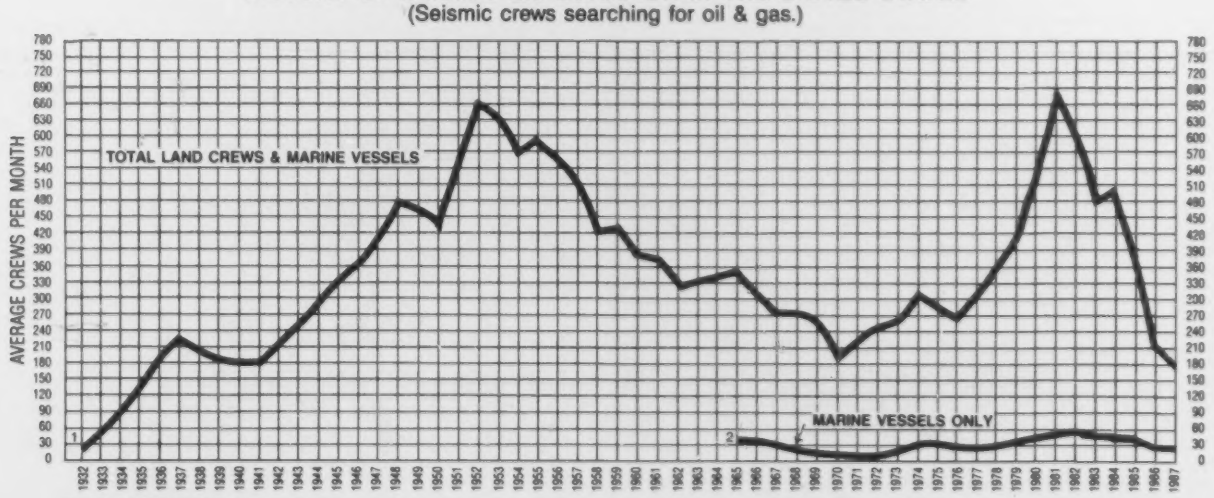
	Land Crews	Marine Crews
21 Contractors:	36 (118)	0 (0)
0 Oil Companies:	0 (2)	0 (0)
Totals:	36 (120)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1966.

6/13/88 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
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(918) 493-3516

MONTHLY SEISMIC CREW COUNT June 8, 1988

(Month of May, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of May. The land crew total decreased by three crews, and the marine crew total increased by one for a net decrease of two crews to a total of 194.

The May total (194) represents a decrease of 1% from last month, **a 17% increase over May, 1987**, a 2% decrease from May, 1986, a 47% decrease from May, 1985, a 60% decrease from May, 1984, a 57% decrease from May, 1983, and a decrease of 68% from the same month in 1982.

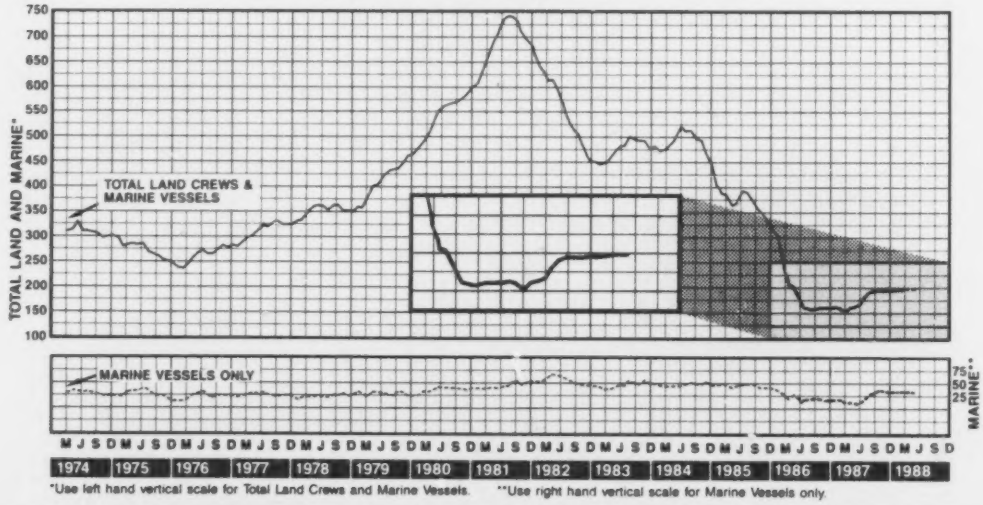
During May, three contractors were operating two of the 149 land crews and one of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	May.'87	May.'86	May.'85	May.'84	May. 83	May.'82
	194	196	166	191	364	490	455	612

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	May. 1987	May. 1986	May. 1985	May. 1984	May. 1983	May. 1982	This Mo.	Last Mo.	May. 1987	May. 1986	May. 1985	May. 1984	May. 1983	May. 1982
44 Contr's:	149	152	131	148	293	406	375	508	25	24	17	14	35	38	33	53
8 Oil Co's:	15	15	15	24	30	38	41	43	4	4	3	5	5	8	6	8
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
TOTALS	164	167	146	172	323	444	416	551	30	29	20	19	41	46	39	61

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
750
700
650
600
550
500
450
400
350
300
250
200
150
100
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
75
50
25
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

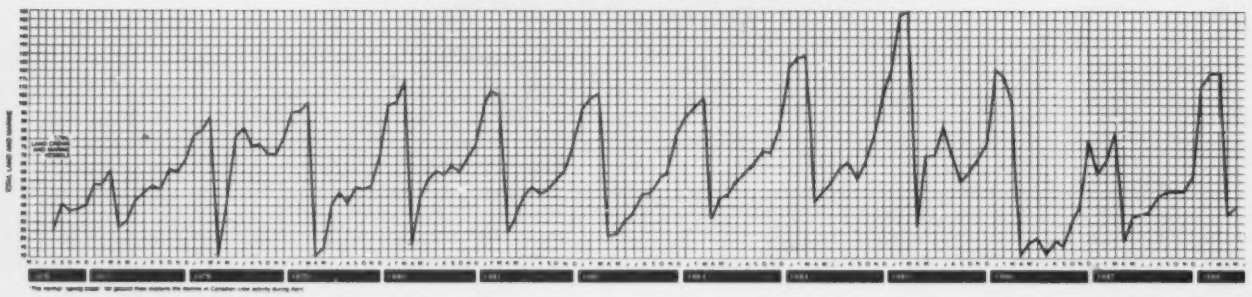
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

May, 1988 (April figures in parentheses)

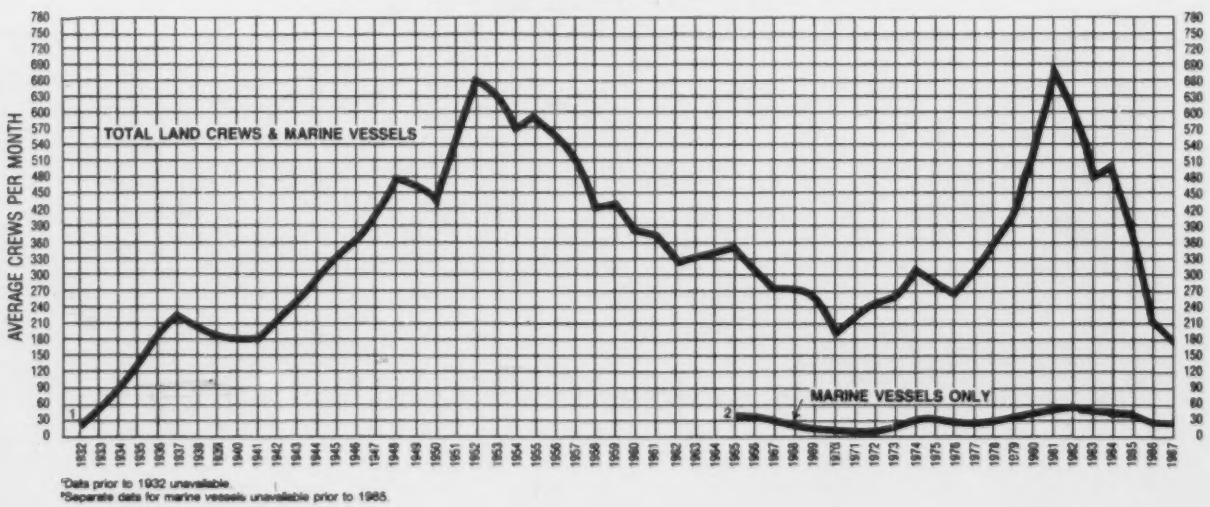
	Land Crews	Marine Crews
20 Contractors:	37 (36)	0 (0)
1 Oil Company:	1 (0)	0 (0)
Totals:	38 (36)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1965.

4 7/13/88 A8712-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
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MONTHLY SEISMIC CREW COUNT

July 8, 1988

(Month of June, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of June. The land crew total decreased by six crews, and the marine crew total remained the same for a net decrease of six crews to a total of 188.

The June total (188) represents a decrease of 3% from last month, **an 11% increase over June, 1987**, a 4% increase over June, 1986, a 49% decrease from June, 1985, a 62% decrease from June, 1984, a 60% decrease from June, 1983, and a decrease of 69% from the same month in 1982.

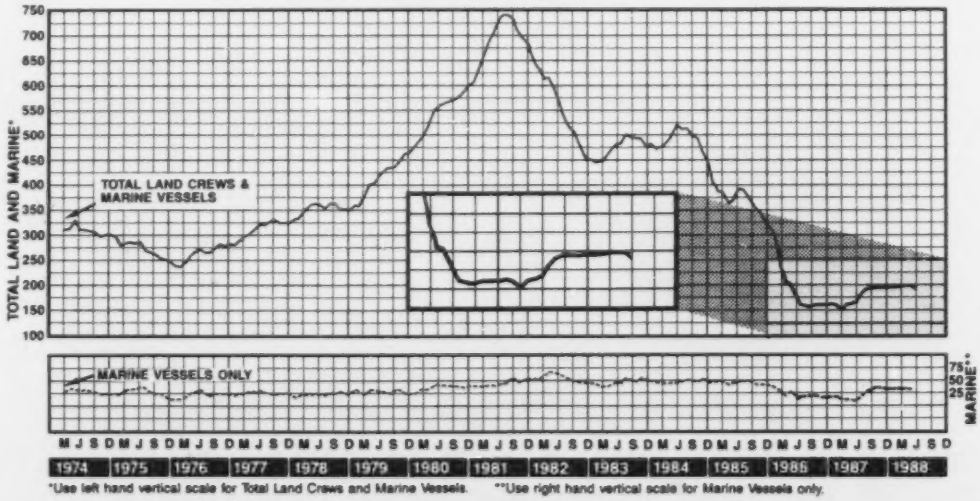
During June, four contractors were operating four of the 143 land crews and one of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	June'87	June'86	June'85	June'84	June 83	June'82
	188	194	169	180	371	500	471	615

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	June 1987	June 1986	June 1985	June 1984	June 1983	June 1982	This Mo.	Last Mo.	June 1987	June 1986	June 1985	June 1984	June 1983	June 1982
42 Contr's:	143	149	133	140	294	418	387	503	25	25	19	14	40	38	37	62
8 Oil Co's:	15	15	14	22	30	37	41	43	4	4	3	4	6	7	6	7
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
TOTALS	158	164	147	162	324	455	428	546	30	30	22	18	47	45	43	69

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

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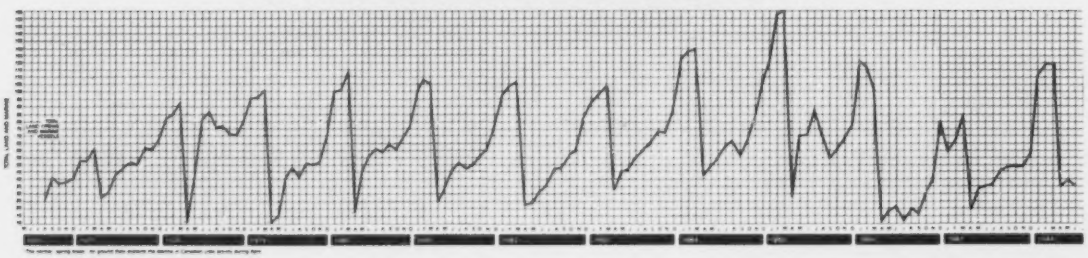
CANADIAN SEISMIC CREW COUNT

June, 1988 (May figures in parentheses)

	Land Crews	Marine Crews
21 Contractors:	34 (37)	0 (0)
1 Oil Company:	1 (0)	0 (0)
Totals:	35 (38)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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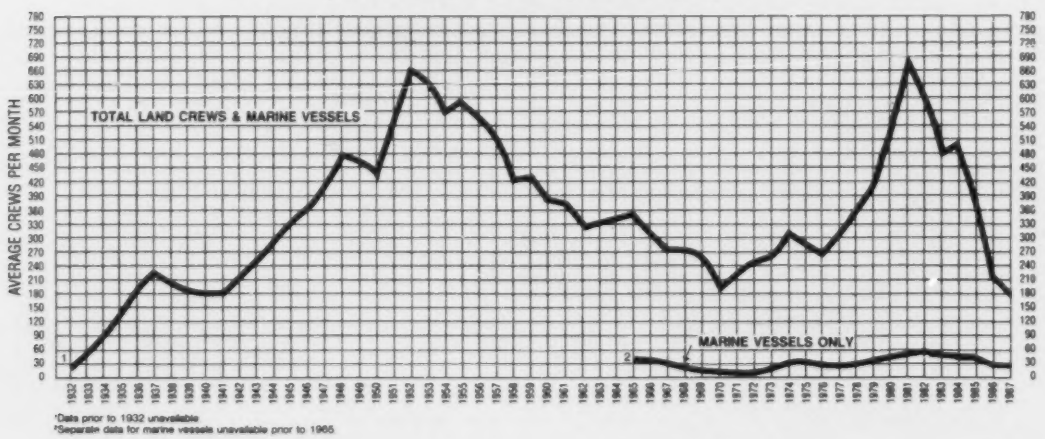
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
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(918) 493-3516

MONTHLY SEISMIC CREW COUNT August 9, 1988

(Month of July, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of July. The land crew total remained the same at 158 and the marine crew total decreased by two for a net decrease of two crews to a total of 186.

The July total (186) represents a decrease of 1% from last month, a 2% increase over July, 1987, **a 18% increase over July, 1986**, a 53% decrease from July, 1985, a 65% decrease from July, 1984, a 62% decrease from July, 1983, and a decrease of 69% from the same month in 1982.

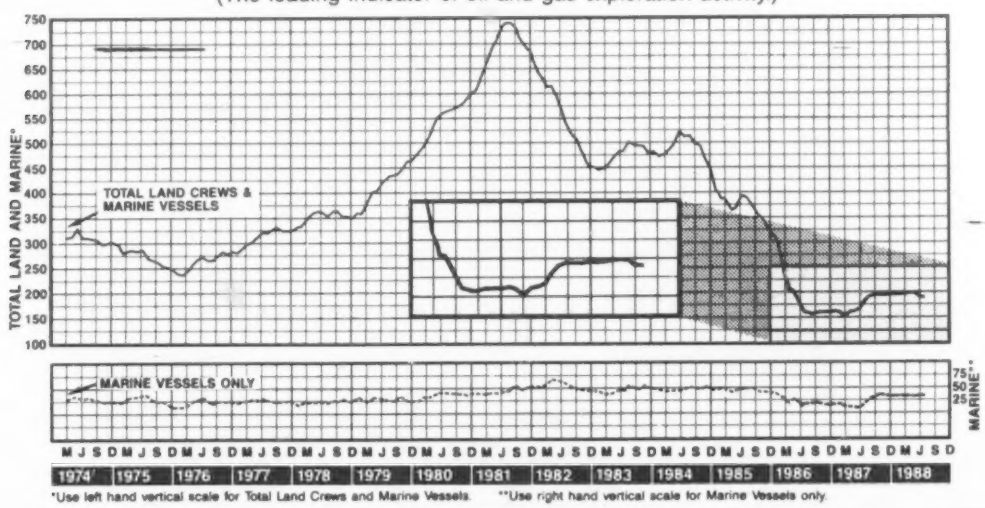
During July, four contractors were operating four of the 143 land crews and one of the twenty-three marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	July'87	July'86	July'85	July'84	July 83	July'82
	186	188	183	158	397	529	483	593

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	July 1987	July 1986	July 1985	July 1984	July 1983	July 1982	This Mo.	Last Mo.	July 1987	July 1986	July 1985	July 1984	July 1983	July 1982
42 Contr's:	143	143	145	121	317	445	397	484	23	25	21	17	41	39	41	58
8 Oil Co's:	15	15	14	17	33	37	40	43	4	4	3	3	6	7	5	7
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1
TOTALS	158	158	159	138	350	482	437	527	28	30	24	20	47	47	46	66

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
750
700
650
600
550
500
450
400
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300
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200
150
100
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
75
50
25
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974' 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

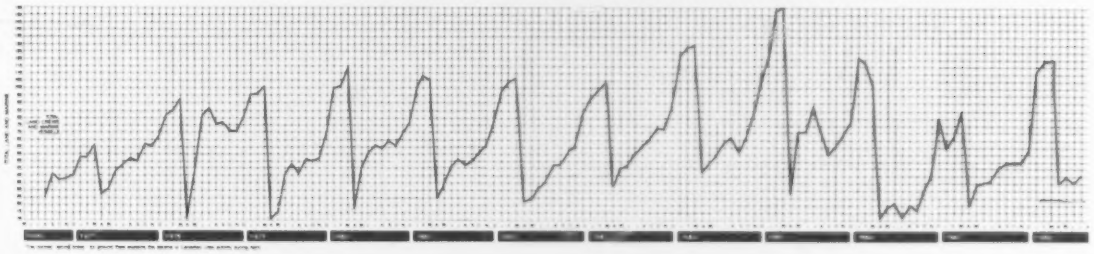
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

July, 1988 (June figures in parentheses)

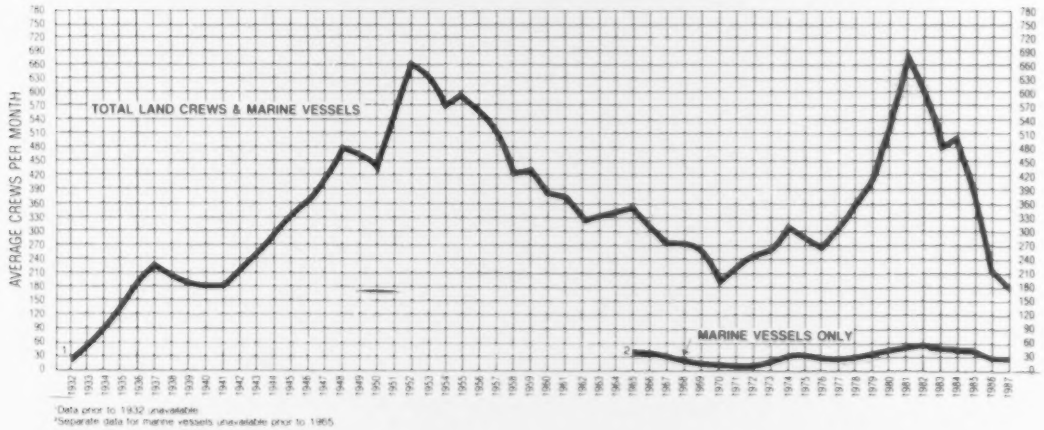
	Land Crews	Marine Crews
21 Contractors:	38 (34)	2 (0)
1 Oil Company:	2 (1)	0 (0)
Totals:	40 (35)	2 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1] Data prior to 1932 unavailable
[2] Separate data for marine vessels unavailable prior to 1965

A8912-1
9/12/88

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

September 8, 1988

(Month of August, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during the month of August. The land crew total decreased by two to 156 and the marine crew total increased by four for a net increase of two crews to a total of 188.

The August total (188) represents an increase of 1% from last month, a 1% increase over August, 1987, **a 21% increase over August, 1986**, a 52% decrease from August, 1985, a 64% decrease from August, 1984, a 61% decrease from August, 1983, and a decrease of 67% from the same month in 1982.

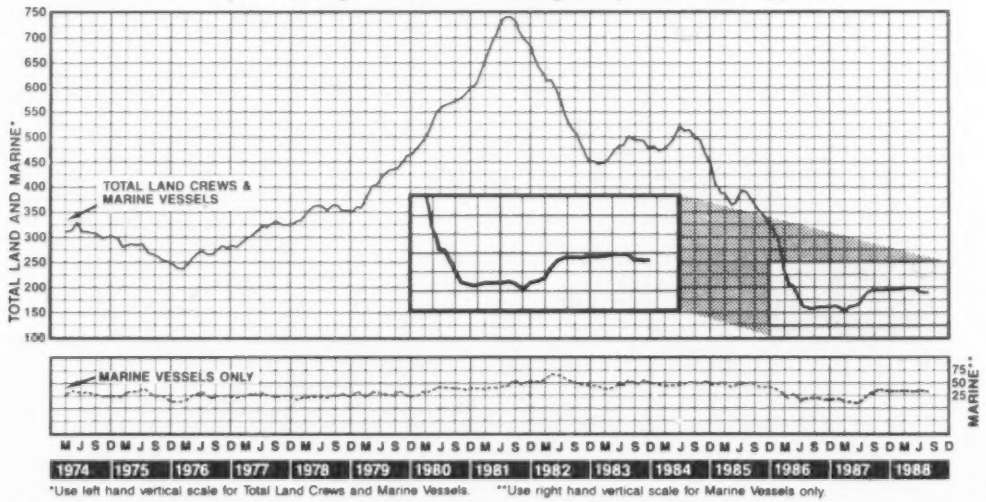
During August, six contractors were operating six of the 141 land crews and one of the twenty-seven marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Aug.'87	Aug.'86	Aug.'85	Aug.'84	Aug. 83	Aug.'82
	188	186	187	156	390	523	484	562

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983	Aug. 1982	This Mo.	Last Mo.	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983	Aug. 1982
42 Contr's:	141	143	145	120	308	433	396	458	27	23	25	16	42	45	43	54
8 Oil Co's:	15	15	14	17	33	37	39	42	4	4	3	3	6	7	6	7
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1
TOTALS	156	158	159	137	341	470	435	500	32	28	28	19	49	53	49	62

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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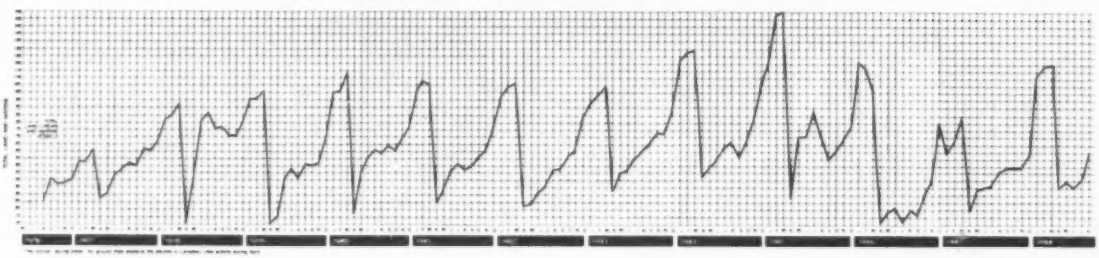
CANADIAN SEISMIC CREW COUNT

August, 1988 (July figures in parentheses)

	Land Crews	Marine Crews
29 Contractors:	54 (38)	3 (2)
1 Oil Company:	2 (2)	0 (0)
Totals:	56 (40)	3 (2)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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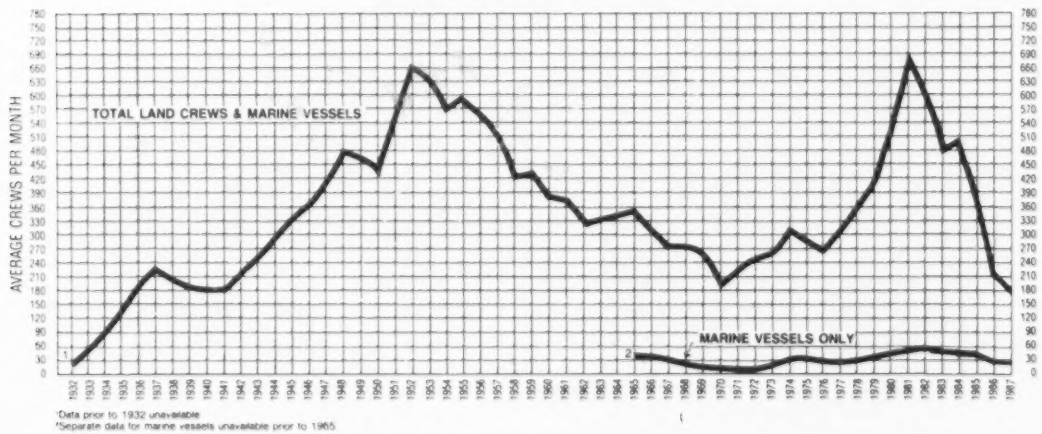
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

A8912-1
10/20/88

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

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MONTHLY SEISMIC CREW COUNT

October 11, 1988

(Month of September, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of September. The land crew total decreased by five to 151 and the marine crew total decreased by two for a net decrease of seven crews to a total of 181.

The September total (181) represents a decrease of 4% from last month, a 6% decrease from September, 1987, **a 17% increase over September, 1986**, a 51% decrease from September, 1985, a 63% decrease from September, 1984, a 64% decrease from September, 1983, and a decrease of 66% from the same month in 1982.

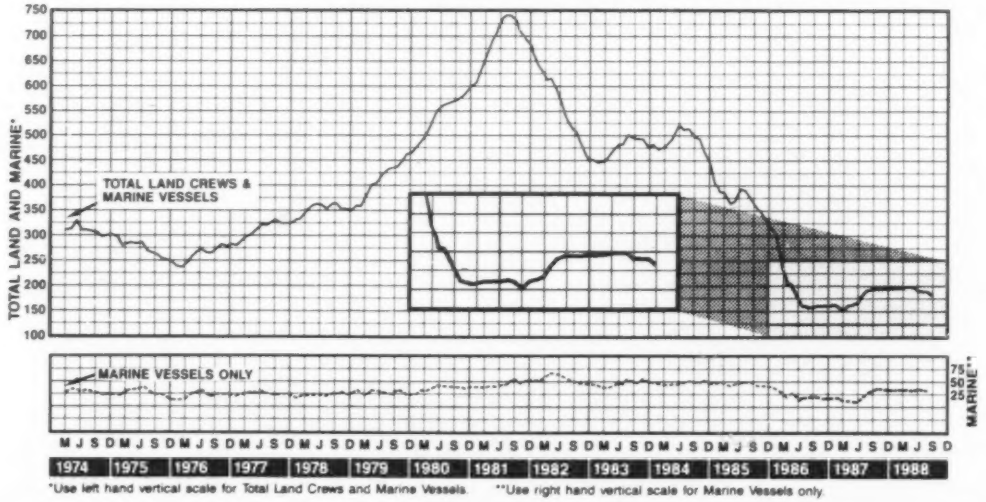
During September, four contractors were operating three of the 136 land crews and one of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Sept'87	Sept'86	Sept'85	Sept'84	Sept 83	Sept'82
	181	188	193	155	372	524	501	535

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Sept 1987	Sept 1986	Sept 1985	Sept 1984	Sept 1983	Sept 1982	This Mo.	Last Mo.	Sept 1987	Sept 1986	Sept 1985	Sept 1984	Sept 1983	Sept 1982
37 Contr's:	136	141	151	114	290	435	405	434	25	27	26	20	43	44	49	50
8 Oil Co's:	15	15	13	17	33	37	39	42	4	4	3	4	6	7	7	8
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1
TOTALS	151	156	164	131	323	472	444	476	30	32	29	24	49	52	57	59

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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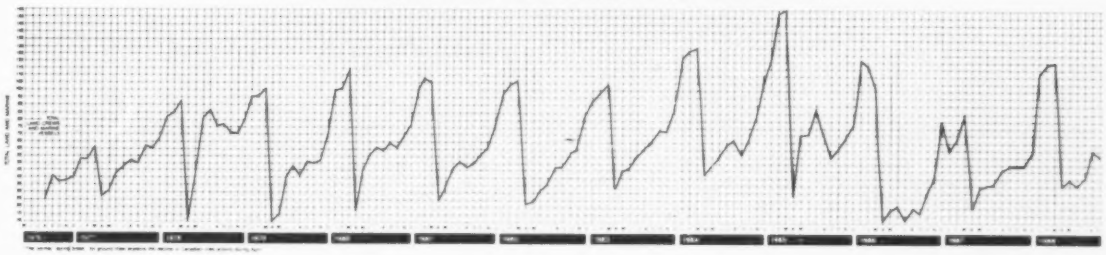
CANADIAN SEISMIC CREW COUNT

September, 1988 (August figures in parentheses)

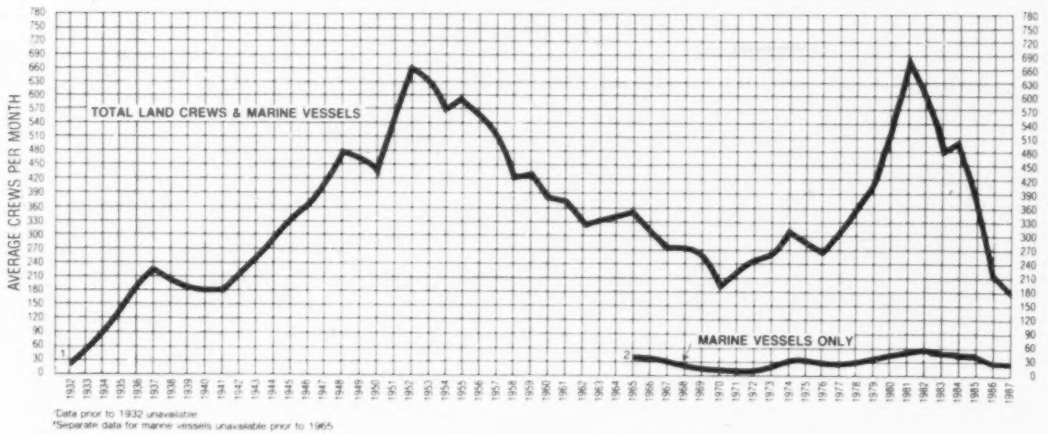
	Land Crews	Marine Crews
26 Contractors:	51 (54)	3 (3)
1 Oil Company:	2 (2)	0 (0)
Totals:	53 (56)	3 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)


AVERAGE CREWS PER MONTH
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
1
2
*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965